

## ABSTRACT OF THE DISCLOSURE

Low cost antennas formed of conductive loaded resin-based materials. The conductive loaded resin-based materials are resins filled with conductive materials to provide a material which is a conductor rather than an insulator or body. The conductive materials comprise a resin-based structural material loaded with micron conductive powders or micron conductive fibers to provide a composite which is a conductor rather than an insulator. Virtually any antenna fabricated by conventional means such as wire, strip-line, printed circuit boards, or the like can be fabricated using the conductive loaded resin-based materials. The antennas can be formed using methods such as injection molding, overmolding, or extrusion.